

METHOD AND SYSTEM FOR DUAL LINK COMMUNICATIONS ENCRYPTION

Abstract Of The Disclosure

5

10

A method and systems are provided for creating an authentication of secure communications between a software video driver and a video display. A video driver transmitting digital video data deemed high-bandwidth digital content, to a display, performs authentication to determine if a secure connection has been established with a display. The video driver and the display both generate encryption keys that are compared to ensure that the display used is authorized for secure communications. A single stream of video data is encrypted using the secret keys. A first encryption key encrypts even-numbered pixels in the single stream of video data. A second encryption key encrypts odd-numbered pixels in the single stream of video data. The stream is split into two streams of data, which are transmitted to a display. The display decrypts each of the streams of encrypted video data and merges them to re-create the original stream of video data. At a regular interval, the video driver securely queries the status of the video controller to verify that the connection between video controller and video display is still authorized and secure.

15
T.03020"EE0460